

IN THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the Application.

Listing of Claims

1 – 64. (Canceled)

65. (Currently Amended) A method for modifying a specularly reflected light intensity on a surface of a computer generated object to map a texture onto the computer generated object, comprising:

accessing a specular reflectance coefficient in a specular reflectance coefficient map associated with a texture map of the texture, the specular reflectance coefficient indicative of the specular reflectance of the texture; and

combining the specularly reflected light intensity with ~~[[a]]~~ the specular reflectance coefficient, ~~said specular reflectance coefficient being retrieved from a specular reflectance coefficient map associated with a texture map~~ to modify the specularly reflected light intensity.

66. (Previously Presented) ~~A method as set forth in~~ The method of claim 65, wherein combining the specularly reflected light intensity with the specular reflectance coefficient comprises multiplying the specularly reflected light intensity by the specular reflectance coefficient.

67-71. (Canceled)

72. (Currently Amended) An electronically-readable medium storing a program for permitting a computer to perform a method for modifying a specularly reflected light intensity on a surface of a computer generated object to map a texture onto the computer generated object, the method comprising:

accessing a specular reflectance coefficient in a specular reflectance coefficient map associated with a texture map of the texture, the specular reflectance coefficient indicative of the specular reflectance of the texture; and

combining the specularly reflected light intensity with ~~[[a]]~~ the specular reflectance coefficient, ~~said specular reflectance coefficient being retrieved from a specular reflectance coefficient map associated with a texture map~~ to modify the specularly reflected light intensity.

73. (Currently Amended) An electronically-readable medium storing a program for permitting a computer to perform a method ~~for adding detail to a texture map comprising at least one texture element~~ of mapping a texture onto a computer generated object comprising a plurality of pixels, the method comprising:

accessing a texture map comprising a plurality of texels characteristic of the texture;

~~generating~~ accessing a detail map comprising a plurality of structures characteristic of a pattern for the texture;

~~assigning a pointer into said detail map to at least one of the texture elements of the texture map to generate a pointer map, said pointer comprising two offsets including a first offset stored in a first offset map and a second offset stored in a second offset map;~~

associating at least one texel of the texture map with a region of the detail map;

interpolating determining a detail color for at least one pixel of the plurality of pixels
based on the generated detail map;
interpolating determining a texture color for the at least one pixel based on the texture
map; and
combining the detail color with the texture color to generate determine a pixel color for the at
least one pixel.

74-77. (Canceled)

78. (New) The electronically-readable medium of claim 72, wherein combining the
specularly reflected light intensity with the specular reflectance coefficient comprises
multiplying the specularly reflected light intensity by the specular reflectance coefficient.

79. (New) The electronically-readable medium of claim 73, wherein associating at least one
texel of the texture map with a region of the detail map comprises:
generating a pointer to the region of the detail map; and
assigning the pointer to the at least one texel of the texture map.

80. (New) The electronically-readable medium of claim 73, wherein the region is a texel of
the detail map.

81. (New) The electronically-readable medium of claim 73, wherein the region is a plurality
of texels in the detail map.

82. (New) The electronically-readable medium of claim 73, further comprising generating the detail map based on the pattern for the texture.

83. (New) The electronically-readable medium of claim 73, further comprising generating a detail offset map by associating each of the texels of the texture map with a corresponding region of the detail map.

84. (New) The electronically-readable medium of claim 83, wherein associating each of the texels of the texture map with a corresponding region of the detail map comprises generating for each of the texels of the texture map a pointer to the corresponding region of the detail map.

85. (New) The electronically-readable medium of claim 73, wherein the plurality of structures is a set of micro-structures.

86. (New) A method for mapping a texture onto a surface of a computer generated object comprising a plurality of pixels, the method comprising the steps of:

accessing a texture map comprising a plurality of texels characteristic of the texture;

accessing a detail map comprising a plurality of structures characteristic of a pattern for the texture;

associating at least one texel of the texture map with a region of the detail map;

determining a detail color for at least one pixel of the plurality of pixels based on the detail map;

determining a texture color for the at least one pixel based on the texture map; and
combining the detail color with the texture color to determine a pixel color for the at least one pixel.

87. (New) The method of claim 86, wherein associating at least one texel of the texture map with a region of the detail map comprises:

generating a pointer to the region of the detail map; and
assigning the pointer to the at least one texel of the texture map.

88. (New) The method of claim 86, wherein the region is a texel of the detail map.

89. (New) The method of claim 86, wherein the region is a plurality of texels in the detail map.

90. (New) The method of claim 86, further comprising generating the detail map based on the pattern for the texture.

91. (New) A method of claim 86, further comprising generating a detail offset map by associating each of the texels of the texture map with a corresponding region of the detail map.

92. (New) The method of claim 91, wherein associating each of the texels of the texture map with a corresponding region of the detail map comprises generating for each of the texels of the texture map a pointer to the corresponding region of the detail map.

93. (New) The method of claim 86, wherein the plurality of structures is a set of micro-structures.